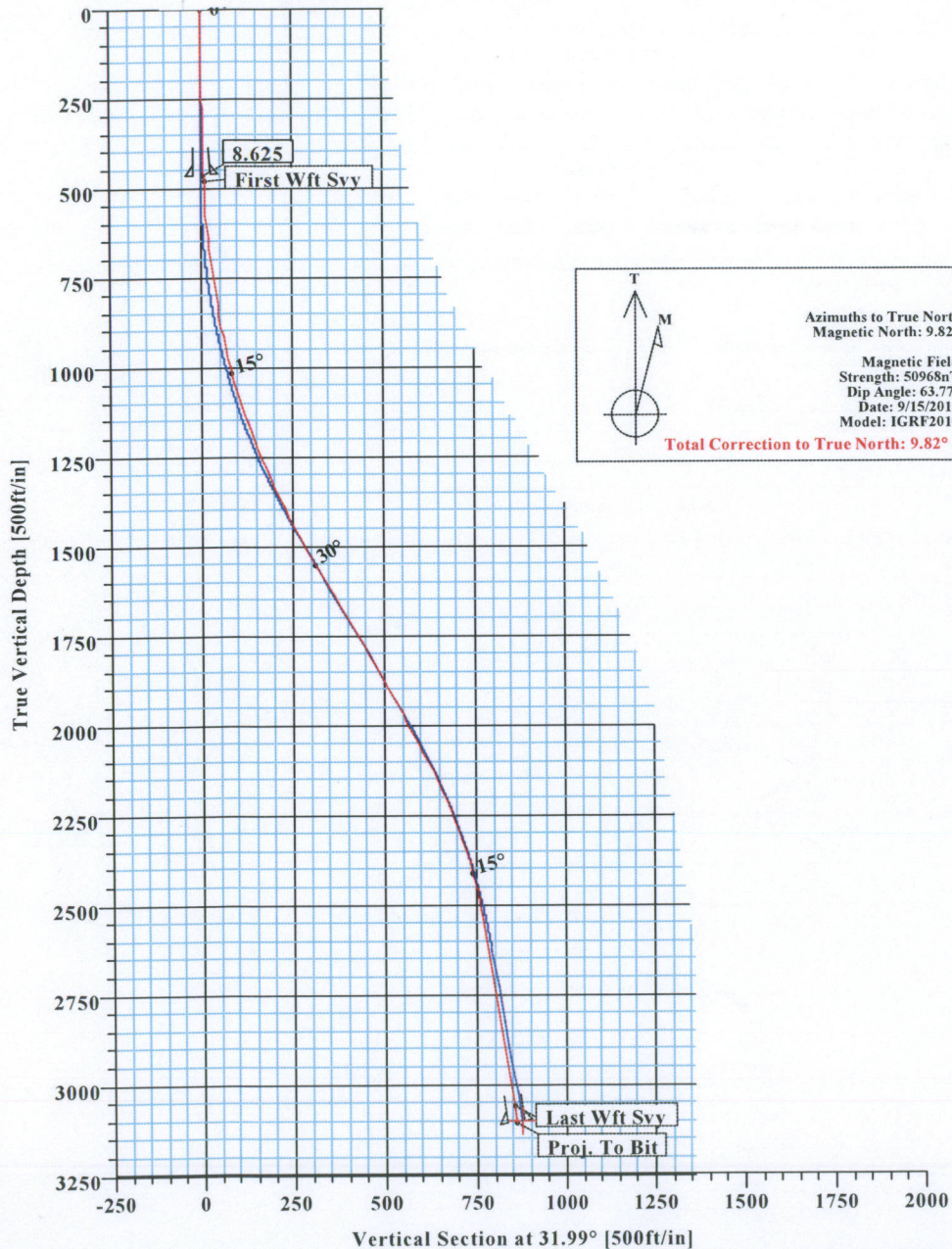




**Pargin #2-36**  
**La Plata County, CO**

KBELEV: 6474  
GLELEV: 6462



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	31.98	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	31.98	500.00	0.00	0.00	0.00	0.00	0.00	
3	1500.00	30.00	31.98	1454.93	217.05	135.50	3.00	31.98	255.87	
4	2114.04	30.00	31.98	1986.70	477.48	298.09	0.00	0.00	562.89	
5	2780.71	10.00	31.98	2609.99	669.92	418.23	3.00	180.00	789.75	
6	3278.28	10.00	31.98	3100.00	743.21	463.99	0.00	0.00	876.15	Pbhl

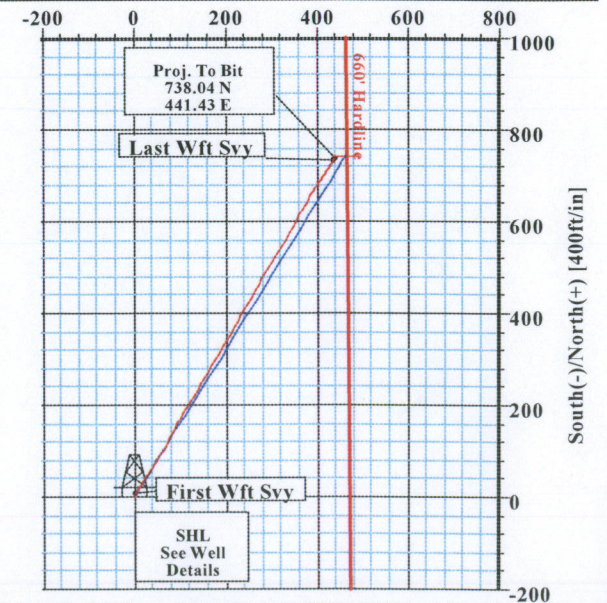
WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Pargin #2-36	0.00	0.00	1148576.92	2400422.38	37°03'23.720N	107°33'17.100W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Pbhl	3100.00	743.21	463.99	37°03'31.068N	107°33'11.376W	Point

FIELD DETAILS	
La Plata County, CO (NAD 83)	
Geodetic System:	US State Plane Coordinate System 1983
Ellipsoid:	GRS 1980
Zone:	Colorado, Southern Zone
Magnetic Model:	IGRF2010
System Datum:	Mean Sea Level
Local North:	True North

SITE DETAILS	
Pargin #2-36	
Site Centre Latitude:	37°03'23.720N
Longitude:	107°33'17.100W
Ground Level:	6462.00
Positional Uncertainty:	0.00
Convergence:	-1.26

Survey: Wft Svy (Pargin #2-36/1)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
89	3278.00	8.24	38.43	3108.76	738.04	441.43	0.00	0.00	859.81







# Weatherford International Ltd.

## WFT Survey Report Lat, Long

**Weatherford**

Company: XTO Date: 10/28/2011 Time: 05:23:43 Page: 1  
Field: La Plata County, CO (NAD 83) Co-ordinate(NE) Reference: Well: Pargin #2-36, True North  
Site: Pargin #2-36 Vertical (TVD) Reference: SITE 6474.0  
Well: Pargin #2-36 Section (VS) Reference: Well (0.00N,0.00E,31.99Azi)  
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 10/26/2011  
Company: Weatherford International Ltd. Engineer: Russell W. Joyner  
Tool: MWD;MWD - Standard Tied-to: From Surface

Field: La Plata County, CO (NAD 83)

Map System: US State Plane Coordinate System 1983 Map Zone: Colorado, Southern Zone  
Geo Datum: GRS 1980 Coordinate System: Well Centre  
Sys Datum: Mean Sea Level Geomagnetic Model: IGRF2010

Site: Pargin #2-36

Site Position: Northing: 1148576.92 ft Latitude: 37 3 23.720 N  
From: Geographic Easting: 2400422.38 ft Longitude: 107 33 17.100 W  
Position Uncertainty: 0.00 ft North Reference: True  
Ground Level: 6462.00 ft Grid Convergence: -1.26 deg

Well: Pargin #2-36 Slot Name:  
Well Position: +N/-S 0.00 ft Northing: 1148576.92 ft Latitude: 37 3 23.720 N  
+E/-W 0.00 ft Easting: 2400422.38 ft Longitude: 107 33 17.100 W  
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface  
Current Datum: SITE Tie-on Depth: 0.00 ft  
Magnetic Data: 9/15/2011 Height 6474.00 ft Above System Datum: Mean Sea Level  
Field Strength: 50968 nT Declination: 9.82 deg  
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 63.77 deg  
ft ft +E/-W Direction  
deg  
0.00 0.00 0.00 31.99

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37	3	23.720	107	33	17.100	8.625 First Wft Sv
465.00	1.84	20.62	464.92	6.98	2.62	7.31	0.40	37	3	23.789	107	33	17.068	
481.00	1.90	20.62	480.91	7.46	2.81	7.82	0.40	37	3	23.794	107	33	17.065	
513.00	1.97	21.68	512.89	8.47	3.20	8.88	0.25	37	3	23.804	107	33	17.061	
545.00	3.53	30.08	544.86	9.83	3.90	10.41	5.02	37	3	23.817	107	33	17.052	
577.00	5.13	33.41	576.76	11.88	5.18	12.82	5.06	37	3	23.837	107	33	17.036	
608.00	5.70	36.69	607.63	14.27	6.86	15.74	2.09	37	3	23.861	107	33	17.015	
640.00	6.05	34.96	639.46	16.93	8.78	19.01	1.23	37	3	23.887	107	33	16.992	
670.00	6.66	32.20	669.27	19.70	10.61	22.33	2.27	37	3	23.915	107	33	16.969	
702.00	7.76	30.21	701.02	23.13	12.68	26.34	3.52	37	3	23.949	107	33	16.944	
733.00	8.45	28.82	731.71	26.94	14.84	30.71	2.31	37	3	23.986	107	33	16.917	
764.00	8.86	29.80	762.36	31.01	17.12	35.37	1.41	37	3	24.027	107	33	16.889	
795.00	8.34	33.48	793.01	34.95	19.55	40.00	2.44	37	3	24.066	107	33	16.859	
826.00	8.58	34.88	823.67	38.73	22.11	44.56	1.02	37	3	24.103	107	33	16.827	
857.00	9.10	36.04	854.30	42.60	24.87	49.31	1.77	37	3	24.141	107	33	16.793	
889.00	10.14	34.91	885.85	46.96	27.98	54.65	3.30	37	3	24.184	107	33	16.755	
920.00	10.90	34.99	916.33	51.60	31.22	60.30	2.45	37	3	24.230	107	33	16.715	
952.00	12.07	34.71	947.69	56.83	34.86	66.67	3.66	37	3	24.282	107	33	16.670	
984.00	13.36	33.60	978.90	62.66	38.81	73.70	4.10	37	3	24.339	107	33	16.621	
1016.00	14.77	33.06	1009.94	69.16	43.08	81.48	4.43	37	3	24.404	107	33	16.569	
1047.00	15.79	32.79	1039.85	76.02	47.52	89.65	3.30	37	3	24.472	107	33	16.514	
1079.00	16.65	32.90	1070.57	83.52	52.37	98.58	2.69	37	3	24.546	107	33	16.454	
1111.00	17.56	32.44	1101.16	91.45	57.45	107.99	2.87	37	3	24.624	107	33	16.391	
1142.00	18.94	30.44	1130.60	99.73	62.51	117.70	4.89	37	3	24.706	107	33	16.329	





# Weatherford International Ltd.

## WFT Survey Report Lat, Long



Company: XTO  
Field: La Plata County, CO (NAD 83)  
Site: Pargin #2-36  
Well: Pargin #2-36  
Wellpath: 1

Date: 10/28/2011 Time: 05:23:43 Page: 2  
Co-ordinate(NE) Reference: Well: Pargin #2-36, True North  
Vertical (TVD) Reference: SITE 6474.0  
Section (VS) Reference: Well (0.00N,0.00E,31.99Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
1174.00	20.19	28.69	1160.75	109.05	67.79	128.41	4.31	37	3	24.798	107	33	16.264	
1205.00	21.19	27.94	1189.75	118.70	72.98	139.34	3.34	37	3	24.893	107	33	16.200	
1237.00	21.94	27.44	1219.51	129.11	78.45	151.06	2.41	37	3	24.996	107	33	16.132	
1269.00	22.31	26.94	1249.15	139.83	83.95	163.07	1.30	37	3	25.102	107	33	16.064	
1301.00	22.56	26.94	1278.73	150.72	89.49	175.24	0.78	37	3	25.210	107	33	15.996	
1332.00	23.31	28.19	1307.28	161.43	95.08	187.28	2.88	37	3	25.316	107	33	15.927	
1364.00	24.25	29.19	1336.56	172.74	101.27	200.16	3.20	37	3	25.428	107	33	15.851	
1396.00	25.00	30.69	1365.65	184.30	107.93	213.49	3.05	37	3	25.542	107	33	15.769	
1428.00	25.75	32.31	1394.57	195.99	115.10	227.20	3.19	37	3	25.658	107	33	15.680	
1459.00	26.69	32.19	1422.38	207.57	122.40	240.90	3.04	37	3	25.772	107	33	15.590	
1491.00	27.69	31.44	1450.84	220.00	130.11	255.52	3.30	37	3	25.895	107	33	15.495	
1523.00	28.75	30.56	1479.04	232.97	137.90	270.65	3.56	37	3	26.023	107	33	15.399	
1554.00	28.94	29.94	1506.19	245.89	145.44	285.59	1.14	37	3	26.151	107	33	15.306	
1586.00	29.38	29.31	1534.13	259.44	153.14	301.17	1.68	37	3	26.285	107	33	15.211	
1617.00	30.27	29.72	1561.03	272.86	160.74	316.58	2.95	37	3	26.418	107	33	15.117	
1648.00	30.50	30.19	1587.77	286.44	168.57	332.25	1.07	37	3	26.552	107	33	15.020	
1679.00	30.75	30.19	1614.45	300.09	176.51	348.03	0.81	37	3	26.687	107	33	14.923	
1709.00	31.00	30.56	1640.20	313.37	184.30	363.42	1.05	37	3	26.818	107	33	14.826	
1740.00	31.25	30.06	1666.73	327.21	192.38	379.44	1.16	37	3	26.955	107	33	14.727	
1772.00	31.81	29.69	1694.01	341.72	200.72	396.16	1.85	37	3	27.098	107	33	14.624	
1803.00	30.69	31.44	1720.51	355.57	208.89	412.23	4.65	37	3	27.235	107	33	14.523	
1835.00	30.44	30.81	1748.06	369.49	217.30	428.50	1.27	37	3	27.373	107	33	14.419	
1867.00	29.00	31.06	1775.85	383.10	225.46	444.37	4.52	37	3	27.508	107	33	14.319	
1898.00	28.49	31.12	1803.03	395.87	233.16	459.27	1.65	37	3	27.634	107	33	14.224	
1929.00	28.44	30.44	1830.29	408.56	240.72	474.04	1.06	37	3	27.759	107	33	14.130	
1960.00	28.69	30.69	1857.51	421.33	248.25	488.86	0.89	37	3	27.886	107	33	14.037	
1992.00	29.00	30.56	1885.54	434.61	256.12	504.30	0.99	37	3	28.017	107	33	13.940	
2024.00	29.36	29.78	1913.48	448.10	263.96	519.89	1.64	37	3	28.150	107	33	13.844	
2055.00	28.69	29.94	1940.59	461.14	271.45	534.92	2.18	37	3	28.279	107	33	13.751	
2087.00	28.81	29.69	1968.64	474.50	279.10	550.30	0.53	37	3	28.411	107	33	13.657	
2117.00	28.63	29.94	1994.95	487.01	286.27	564.71	0.72	37	3	28.535	107	33	13.569	
2147.00	27.83	31.26	2021.38	499.22	293.49	578.89	3.38	37	3	28.656	107	33	13.479	
2177.00	27.50	32.06	2047.96	511.08	300.80	592.82	1.66	37	3	28.773	107	33	13.389	
2206.00	27.81	32.19	2073.64	522.48	307.96	606.28	1.09	37	3	28.886	107	33	13.301	
2236.00	26.94	32.31	2100.28	534.14	315.32	620.07	2.91	37	3	29.001	107	33	13.210	
2267.00	25.56	31.94	2128.08	545.75	322.61	633.78	4.48	37	3	29.116	107	33	13.120	
2297.00	24.25	30.94	2155.29	556.53	329.20	646.42	4.59	37	3	29.222	107	33	13.039	
2326.00	23.41	30.57	2181.82	566.60	335.19	658.13	2.94	37	3	29.322	107	33	12.965	
2356.00	23.25	29.81	2209.37	576.87	341.17	670.00	1.14	37	3	29.423	107	33	12.891	
2386.00	22.13	29.06	2237.05	586.94	346.86	681.57	3.86	37	3	29.523	107	33	12.821	
2417.00	20.94	28.06	2265.88	596.94	352.30	692.92	4.02	37	3	29.622	107	33	12.754	
2447.00	19.75	28.94	2294.01	606.10	357.27	703.33	4.10	37	3	29.712	107	33	12.693	
2478.00	18.88	31.44	2323.27	614.97	362.42	713.58	3.87	37	3	29.800	107	33	12.629	
2510.00	18.06	32.56	2353.62	623.56	367.79	723.72	2.79	37	3	29.885	107	33	12.563	
2541.00	16.63	33.44	2383.21	631.32	372.82	732.96	4.69	37	3	29.962	107	33	12.501	
2573.00	14.88	32.56	2414.00	638.60	377.56	741.64	5.52	37	3	30.034	107	33	12.442	
2603.00	13.69	29.69	2443.08	644.93	381.39	749.04	4.61	37	3	30.096	107	33	12.395	
2663.00	11.19	25.31	2501.66	656.37	387.40	761.92	4.45	37	3	30.209	107	33	12.321	
2693.00	10.00	27.94	2531.15	661.30	389.86	767.41	4.28	37	3	30.258	107	33	12.291	
2724.00	9.31	32.31	2561.71	665.80	392.46	772.60	3.25	37	3	30.303	107	33	12.258	
2756.00	9.19	32.94	2593.30	670.13	395.24	777.75	0.49	37	3	30.345	107	33	12.224	
2819.00	9.19	33.44	2655.49	678.55	400.74	787.81	0.13	37	3	30.429	107	33	12.156	





# Weatherford International Ltd.

## WFT Survey Report Lat, Long

**Weatherford**

Company: XTO  
Field: La Plata County, CO (NAD 83)  
Site: Pargin #2-36  
Well: Pargin #2-36  
Wellpath: 1

Date: 10/28/2011 Time: 05:23:43 Page: 3  
Co-ordinate(NE) Reference: Well: Pargin #2-36, True North  
Vertical (TVD) Reference: SITE 6474.0  
Section (VS) Reference: Well (0.00N,0.00E,31.99Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
2850.00	9.19	33.69	2686.09	682.67	403.48	792.76	0.13	37	3	30.469	107	33	12.122	
2882.00	9.00	34.06	2717.69	686.87	406.30	797.81	0.62	37	3	30.511	107	33	12.088	
2914.00	9.00	32.94	2749.29	691.05	409.06	802.82	0.55	37	3	30.552	107	33	12.054	
2944.00	9.27	31.93	2778.91	695.07	411.62	807.58	1.05	37	3	30.592	107	33	12.022	
2976.00	9.56	31.44	2810.48	699.52	414.37	812.81	0.94	37	3	30.636	107	33	11.988	
3007.00	9.56	32.44	2841.05	703.89	417.09	817.96	0.54	37	3	30.679	107	33	11.955	
3039.00	9.63	32.69	2872.60	708.39	419.96	823.29	0.25	37	3	30.724	107	33	11.919	
3070.00	9.69	32.69	2903.17	712.76	422.77	828.50	0.19	37	3	30.767	107	33	11.885	
3101.00	9.85	33.08	2933.72	717.18	425.63	833.76	0.56	37	3	30.811	107	33	11.849	
3133.00	8.80	35.44	2965.29	721.47	428.54	838.94	3.49	37	3	30.853	107	33	11.813	
3165.00	8.25	37.81	2996.94	725.28	431.37	843.66	2.04	37	3	30.891	107	33	11.778	
3196.00	8.33	38.09	3027.61	728.80	434.12	848.11	0.29	37	3	30.926	107	33	11.745	
3228.00	8.24	38.43	3059.28	732.42	436.97	852.69	0.32	37	3	30.961	107	33	11.709	Last Wft Svy
3278.00	8.24	38.43	3108.76	738.04	441.43	859.81	0.00	37	3	31.017	107	33	11.654	Proj. To Bit

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
465.00	464.92	8.625	12.250	8.625
3278.28	3109.04	5.500	7.875	5 1/2"

### Annotation

MD ft	TVD ft	
481.00	480.91	First Wft Svy
3228.00	3059.28	Last Wft Svy
3278.00	3108.76	Proj. To Bit

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1429.59	1396.00	Ojo Alamo SS		0.00	0.00
1557.21	1509.00	Kirtland Shale		0.00	0.00
2451.24	2298.00	Fruitland Formation		0.00	0.00
2737.46	2575.00	Upper Fruitland Coal**		0.00	0.00
2818.51	2655.00	Middle Fruitland Coal*		0.00	0.00
2926.87	2762.00	Pictured Cliffs Tongue		0.00	0.00
3122.58	2955.00	Lower Fruitland Coal**		0.00	0.00
3144.84	2977.00	Pictured Cliffs		0.00	0.00